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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/903,944	07/31/1997	TAU-SAN CHOU	089166/0107	3007
20306 75	590 09/26/2003			
		BERT & BERGHOFF	EXAM	INER
SUITE 3200	ACKER DRIVE		FOX, DA	AVID T
CHICAGO, IL	00000		ART UNIT	PAPER NUMBER
			1638 DATE MAILED: 09/26/2003	41

Please find below and/or attached an Office communication concerning this application or proceeding.

1	FI	LE			
•		Applicati n N .	Applicant(s)		
		08/903,944	CHOU ET AL.		
	Office Action Summary	Examiner	Art Unit		
		David T. Fox	1638		
Period f	The MAILING DATE of this communication app	ears on the cover sheet with the c			
A SH THE - Exte after - If th - If NC - Failt - Any	IORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing end patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days illiapply and will expire SIX (6) MONTHS from cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication.		
1)⊠	Responsive to communication(s) filed on 07 F	ebruary 2003 and 18 June 2003			
2a)⊠		s action is non-final.	•		
3)	Since this application is in condition for allowa closed in accordance with the practice under lion of Claims	nce except for formal matters, pr	osecution as to the merits is 53 O.G. 213.		
	Claim(s) <u>1-45,47-106 and 108-112</u> is/are pend	ing in the application			
7/63					
5)⊠	4a) Of the above claim(s) is/are withdrawn from consideration.				
6)⊠	☑ Claim(s) <u>1-5 and 97</u> is/are allowed. ☑ Claim(s) 6.37.30.45.47.71.73.06.08.406.and 408.440 in/are arises.				
<i>,</i> —	6)⊠ Claim(s) <u>6-37,39-45,47-71,73-96,98-106 and 108-112</u> is/are rejected. 7)⊠ Claim(s) <u>38 and 72</u> is/are objected to.				
8)	Claim(s) are subject to restriction and/or ion Papers	election requirement.			
	The specification is objected to by the Examiner				
	The drawing(s) filed on is/are: a)□ accep		niner		
	Applicant may not request that any objection to the				
11)[11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority u	ınder 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).		
_	☐ All b)☐ Some * c)☐ None of:	• • • • • • • • • • • • • • • • • • • •			
	1. Certified copies of the priority documents	have been received.			
	2. Certified copies of the priority documents		on No.		
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
	cknowledgment is made of a claim for domestic				
a)	☐ The translation of the foreign language prov cknowledgment is made of a claim for domestic	isional application has been rece	ived.		
Attachment			<u>-</u>		
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)		
5. Patent and Tra TOL-326 (Re		on Summary	Part of Paper No. 41		

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Applicants' amendments of 18 June 2003 and arguments of 7 February 2003 have overcome all rejections under 35 USC 112, second paragraph; and all art rejections except as indicated below for claims 101 and 104.

Claims 6-37, 39-45, 47-71, 73-96, 98-100, 102-103, 105-106 and 108-112 remain rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for claims limited to a microprojectile-mediated method of transforming poinsettia and to plants produced by that method, does not reasonably provide enablement for claims broadly drawn to any method of transforming poinsettia including Agrobacterium-mediated methods or any transgenic poinsettia plant produced by any method. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims, as stated on pages 3-5 of the last Office action.

Claims 73-75, 83 and 85 remain rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention, as stated on pages 5-6 of the last Office action.

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Claims 101 and 104 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Preil et al taken with Lelu et al and DeWald et al, in light of Hartmann et al and Lee et al, as stated on pages 7-9 of the last Office action for claims 1, 97, 101, 104, 113 and 116.

Claims 1-45, 47-100, 102, 103, 105-106 and 108-112 are deemed free of the prior art, given the failure of the prior art to teach or reasonably suggest the particularly claimed method steps and medium additions for tissue culturing poinsettia via somatic embryogenesis to obtain whole plants, and given the failure of the prior art to teach or reasonably suggest a method for obtaining whole transformed poinsettia plants.

Claims 38 and 72 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-5 and 97 are allowed.

Applicants' arguments filed 7 February 2003, insofar as they pertain to the rejections above, have been fully considered but they are not persuasive.

Applicants urge that the scope of enablement rejection is improper, given the failure of the references cited by the Examiner to demonstrate that the instant *Euphorbia* species is not susceptible to the instant *Agrobacterium* species, and given the knowledge in the art that poinsettia is indeed susceptible to *Agrobacterium* as evidenced by Simone et al (APSNet, Diseases of Poinsettia) appended to the amendment of 7 February 2003.

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The Examiner maintains that he has cited several scientific publications which demonstrate that related *Euphorbia* species were recalcitrant to *Agrobacterium* tumefaciens infection, and that poinsettia is recalcitrant to infection by a closely related *Agrobacterium* species. This evidence is more probative than mere assertions by Applicants themselves that poinsettia is in fact susceptible to *Agrobacterium* tumefaciens.

Regarding the APSNet website, the Examiner notes that the only reports of crown gall disease (i.e. *Agrobacterium tumefaciens* infection) of poinsettia were reported in 1907 and 1942. The Examiner was unable to recover any articles published within the last fifty years that reported such results. Applicants are directed to DeCleene et al (1976), who teach that past methods of determining susceptibility to *Agrobacterium tumefaciens* were limited by the sole reliance upon visual symptoms which were poorly distinguishable from controls; and who teach that most members of the Euphorbiales family are not susceptible to *Agrobacterium tumefaciens*, as determined by the authors' more scientific methods (see, e.g., page 391, third full paragraph; page 392, penultimate paragraph; page 394, Figure 1 [see Legend for explanation of shaded versus white areas of the pie charts]; and page 399, Figure 5).

Applicants urge that the written description rejection is improper, given the teachings in *Enzo Biochem* that a demonstration of correlation of structure and function may be sufficient to provide an adequate written description, and given the teachings in *Amgen* that vertebrate cells and mammalian cells were adequately described.

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The Examiner maintains that the rejected claims read on a multitude of unspecified transgenes of unspecified function. Thus, there is no function with which to correlate structure. Furthermore, no demonstration of correlation of conserved structure (i.e. conserved gene sequence) has been demonstrated between transgenes that confer a multitude of divergent traits such as insect resistance, modified flowering or plant growth habit, disease resistance, fatty acid accumulation, carbohydrate accumulation, etc. See MPEP 2163.

Regarding *Amgen*, the Examiner maintains that different fact patterns were involved. In *Amgen*, the description of various types of cells that harbored a single EPO-encoding transgene was questioned and ultimately confirmed. In contrast, the instant claims are not limited to a cells comprising a single transgene encoding a single product, but are instead broadly drawn to a multitude of non-exemplified, unspecified transgenes encoding a multitude of unspecified and unrelated products.

Applicants urge that the first obviousness rejection is improper, given the failure of the prior art to teach or reasonably suggest the use of casein hydrolysate or the use of both a developmental medium and a maturation medium. The Examiner maintains that the rejected claims are not drawn to the use of casein hydrolysate. Furthermore, "developmental medium" and "maturation medium" are mere names of media, which do not in and of themselves characterize or distinguish the media from the prior art media. It is the components of said media that are required to distinguish them. The developmental medium is merely characterized as containing an osmotic pressure increasing agent (such as sucrose) and any cytokinin, both taught in the prior art as

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stated previously. The maturation medium is merely characterized as comprising abscisic acid, whose use in poinsettia embryogenesis was suggested by Preil et al and taught by Lelu et and DeWald et al in a multitude of unrelated plant species, as stated previously.

See In re Lindner, 173 USPQ 356 (CCPA 1972) and In re Grasselli, 218 USPQ 769 (Fed. Cir. 1983) which teach that the evidence of nonobviousness should be commensurate with the scope of the claims.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David T. Fox whose telephone number is (703) 308-0280. The examiner can normally be reached on Monday through Friday from 10:30AM to 7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson, can be reached on (703) 306-3218. The fax phone number for this Group is (703) 872-9306. The after final fax phone number is (703) 872-9307.

September 22, 2003

DAVID T. FOX
PRIMARY EXAMINER
GROUP-180 / (-3)

DAVID T. FOX PRIMARY EXAMINER GROUP 180

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